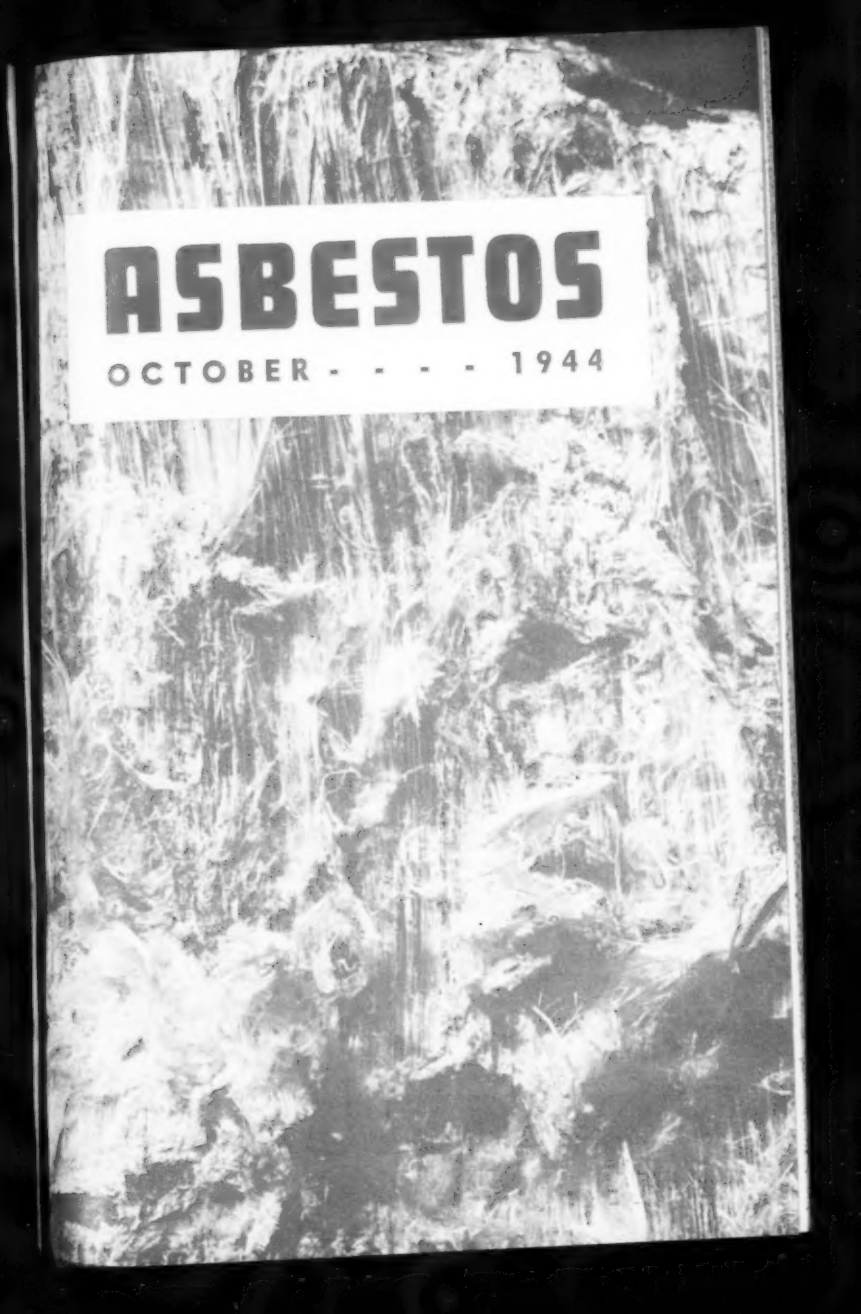
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Entered As Second Class Matter November 23, 1923, at the Post Office at Philadelphia, Pennsylvania, Under Act of March 3, 1879

Volume 26 OCTOBER 1944 Number 4

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CELEBRATION OF V-E DAY

The Chamber of Commerce of the United States, in a letter addressed to its members by its President, Eric A. Johnston, suggests that V-E Day be celebrated by a "simple and solemn rededication to the war effort" and urges that every organization use its influence locally to encourage continuance of full speed operation of all plants and other business establishments.

"With Germany's capitulation", says Mr. Johnston "we must remember that we yet will be only at the halfway point. In spite of recent victories and remarkable advances in the South Pacific, we still will have before us the gigantic task of winning against Japan. Even as we rejoice over the collapse or disintegration of Germany, Americans will be dying in the Pacific. Machines, guns, airplanes, ammunition—all the supplies of war will still be needed. There must be no let-up, either in production or in the will to victory.

"The spirit on V-E Day should be that we have finally reached the real beginning of the end; that the time will then have arrived for putting everything that we have into the slogan *On to Tokyo.*"

We thoroly endorse Mr. Johnston's suggestion. It seems to us that a holiday of wild hilarity would be entirely out of place on V-E Day. When the final day of real Victory arrives, that will be the time to throw up our hats and hurrah!

. . . —

Trade marks on U. S. lendlease material are creating national goodwill all over the world, and opening up many hitherto unexplored postwar markets for American products.

. . . —

Reconversion is the economic task of this generation. It requires overall coordination, it requires maximum teamwork between government and industry so that we can get production started promptly and with sufficient momentum to take up the slack when the government gets out of the market after V-day.—*J. A. Krug of WPB.*

ASBESTOS MINING METHODS

(A continuation of the article by C. V. Smith which began in September "ASBESTOS").

Overhead Cableways. A cableway spans the area being mined and is supported at either end by "A" frames or towers and secured by anchorages in the rock or by counter-balances of rock commonly called "dead-men".

The cables are wire ropes 1½ inches in diameter for short spans and loads of 1½ to 2 tons and 2 to 3 inches in diameter for spans up to about 1400 feet and loads of 5 to 10 tons. These large ropes are known as the track cable. On them operates a carriage connected to the hoist by a hoisting rope and a conveying rope. The hoisting rope descends from the cable as a three-part line to the

Open Pit Mining with Cable Haulage at Johnson's Company, Thetford Mines, Canada.

hoisting block to which the boxes or skips are hooked in the pit. The smaller hoists are double drum or drum and spool (the spool for conveying). Boxes are open at one end and dumped by unhooking the front chain.

Larger hoists are three drum—one each for hoisting, conveying and dumping. Slacking the dumping drum lowers the front end of the box and releases the load. Small hoists are usually stationary. Larger ones are frequently

movable. Either the head and tail towers move on parallel tracks or the head tower is the center of a curved track for the tail tower. The moving towers are operated by separate motors.

Cableways have several advantages. They are a comparatively cheap installation. They permit operations to the maximum depth for safety. Operations may be carried on from the pit floor and on the slopes. A level floor is not necessary nor any tracks thereon. Movable towers permit a series of benches to be operated across the pit.

The largest commercial cableway system ever installed was at the King Mine of Asbestos Corporation Ltd. at Thetford Mines, erected while the writer was chief engineer. There were 8 movable cableways of 1400 foot span. Six of them hoisted 5 ton loads on 2½ inch cables and 2 hoisted 10 ton loads on 3 inch cables. The latter, however, were not as economical as anticipated, the boxes being too heavy for easy placing.

Inclined Cable or Truck Haulage. This, as the name implies, is an incline from surface to pit floor.

With trucks the inclination should not exceed 15 per cent. With cables it is usually about 20 degrees unless specially constructed cars are used.

Trucks are used where the incline is in open cut. This method is economical and advantageous. Barren rock is taken directly to dump. Pit operations may be changed from place to place and even the incline may be moved without great expense. Winter operations on steep inclines are somewhat hazardous.

With cable haulage the incline is fixed and more expensive especially if driven thru weak ground. Double track is quite essential. The first cost is more and is increased by bad ground. But operations are much more satisfactory than with a by-pass which causes frequent interruptions from derailed cars and damage to cables thru accident and wear. A by-pass also makes changes to lower levels difficult because of the increased length of cables required.

Cable haulage usually has tracks and a locomotive in the pit to gather cars which have been loaded by shovels

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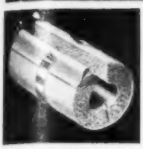

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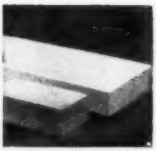

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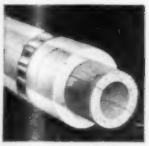

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and bring them to the foot of the incline. The ore body must be sufficient for several years operations. The pit floor can be lowered but it is more difficult than with truck haulage.

With sufficient ore and with a three track yard at foot of incline to provide storage and separate loads from empties this form of transportation can handle a large tonnage at low cost. Probably lower than truck haulage because steep grades are less objectionable and the incline is under cover in winter. Doors are required at portals to prevent freezing.

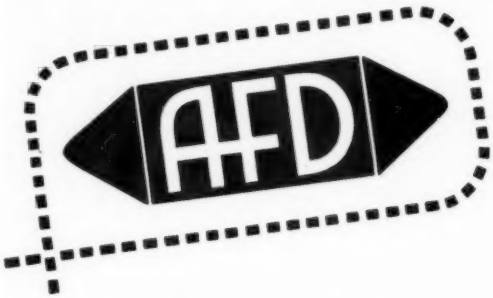
A cable haulage may be used in open cut as well as in tunnels. When tractors or half-tracks are used instead of trucks the grade of 15 per cent may be much increased.

Spiral Benching. This is merely another form of inclined haulage but is usually applied to extensive ore bodies where there is ample space to permit easy grades and the use of standard gauge locomotive haulage. The pit assumes the form of a huge bowl.

Photo courtesy of Canadian J-M Co., Ltd.

A good example of Spiral Benching at the mine of Canadian Johns-Manville Co., Limited, Asbestos, Que., Canada.

Descending tracks traverse the outer edge of the bowl on the first level and take the next levels successively to the pit floor. The width of the benches which form the suc-



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cessive levels is dependent on circumstances. The proper depth of benches is generally accepted as 35 to 40 feet.

This method of operating calls for large daily tonnages and equipment to produce it. Power shovels of 4 to 8 yards capacity are used, and standard railway cars. Drilling is done by heavy drills handling 40 foot steel supported by a frame or derrick. Staggered rows of holes are drilled parallel to the face and slightly below the next bench floor. Some operators prefer churn drills for such operations. These holes are vertical, usually 5 to 9 inches diameter and are spaced farther apart than the air operated drills. In either case many holes are blasted at one time to provide a large "jam" (a local term) of rock and thus avoid frequent movement of shovels. With either type of drilling there is secondary blasting.

When the upper level has reached and probably passed the limits of the orebody, when benches have been worked out and when the pit floor becomes too small for further development, the spiral system has reached its limit of practical operations.

The best example of this method of mining asbestos is at the Canadian Johns-Manville Plant at Asbestos, Quebec. This mine reached its present full scale development of this process thru some of the methods already described. That is—side hill cut by wagon haulage, stiff-leg derrick for a considerable time before cableways were installed, then by cableways until the present system was put into operation.

Multiple Benching. As distinguished from Spiral Benching, which is well known, another form might be called Multiple Benching. It would be used where the orebody has considerable surface area, perhaps broken up by bodies of barren rock which can be left in place, and where many working faces are required to supply the daily production. Because of these islands of barren rock Spiral Benching would not be applicable since it requires the removal of all rock.

By this method the ramifications of an irregular orebody may be conveniently mined. Work would be started by driving trenches in the center of each area to be mined then expanding the trenches by drilling the walls as a face

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or bench, the ore being loaded into trucks by shovels and hauled directly to crushers, or dumped into mill holes to a lower level which may be an adit at crusher level or it may have to be hoisted to another level.

As benches are worked out to the contact or as they merge into other benches at the same level new trenches must be cut to a lower horizon, and the process repeated. If mill holes are being used, slopes for trucks will remain at easy grades. But if ore is hauled directly to crusher the incline will increase in length as the pit is deepened.

The walls where benches terminate must be left at a safe slope for safety of workmen as mining is continued on lower benches.

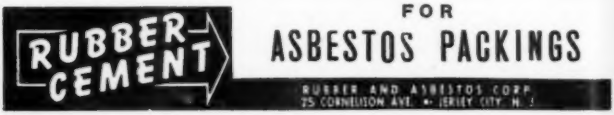
An example of this type of mining is at Gath's Mine, in Mashaba, of African Associated Mines Ltd. It was described in the issue of "ASBESTOS" of August 1941, and submitted by E. G. Harding of The New Amianthus Mines Ltd.

The third and last part of this article on Asbestos Mining Methods will be published in November. It will treat principally of the Block Caving Method—the underground method of mining which has been used by the Asbestos Industry for only the past eleven years.

Reprints of this article "Asbestos Mining Methods" will be made in quantity, and available about December 15.

. . . —

"Fibers of the Future" latest in the series of periodical Business Week Reports to Executives, will probably interest many of our readers. It covers Nylon, Rayon, Cotton, Wool, Silk and Linen, Protein Fibers, Saran, Vinyon, Mineral Fibers and various others, and is available in reprint form at a price of 20c each, from Willard Chevalier, Publisher, Business Week, 330 W. 42nd St., New York, 18, N. Y.



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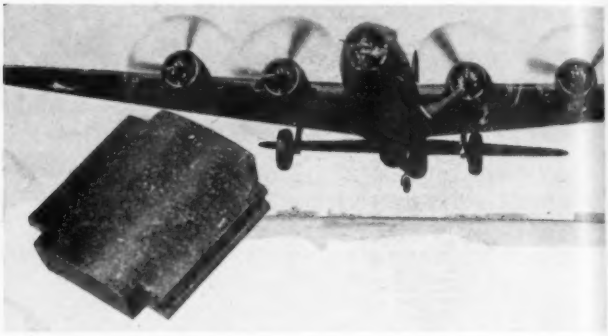

development, this brake block is manufactured by a unique patented process which results in a product of unusual structure with a very high density, exceptional wear, temperature resistance and stability.

The war-proven performance of this brake block makes it outstanding for post-war heavy duty use.

"1492 is being produced at the rate of 15 tons a day and should shortly be available for civilian use. Meanwhile Raybestos offers samples of it specially engineered to customer's post-war friction requirements. And an enlarged staff of technologists is available for consultations.

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NATIONAL FUEL EFFICIENCY PROGRAM

A report has recently been issued by the Solid Fuels Administration for War, Department of the Interior, Washington, D. C., on the National Fuel Efficiency Program, of which we quote in part:

To obtain the greatest degree of efficiency in using fuel at an industrial plant requires the skill of trained engineers, who can locate escaping heat and power, and recommend practical measures to adjust the faults. Many of the Nation's larger plants employ combustion engineers whose jobs are to save the plant's money by increasing the efficiency of its fuel.

But for every large plant that employs its own expert, there are hundreds of smaller ones dependent upon firemen and engineers who have not had the benefit of special training, and who must do their work without the advantages of improved and modernized equipment by which to detect and prevent escaping heat and power.

These smaller plants can benefit immeasurably by taking part in the National Fuel Efficiency Program, which offers the voluntary cooperation of engineers who will provide advice to plant managers without cost. Many of the larger plants are cooperating now in the program with fresh emphasis on fuel saving.

To assist in carrying out its fuel efficiency and conservation program on a national scale, the Bureau of Mines has appointed a National Fuel Efficiency Council of twelve men. They include smoke abatement engineers and experts from the coal, oil and gas industries. The council works on policy matters and helps to solve special problems in certain regions and industries.

In the field, the program for conserving fuel is spearheaded by about 200 local coordinators, who serve in the industrial centers in which they live. Each local coordinator appoints an advisory committee which may be composed of local engineering experts, industrial leaders, smoke inspectors, and representatives of such groups as the Chamber of Commerce, Coal Association, and the Board of Education. He also appoints regional engineers

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who are qualified to inspect industrial plants and make recommendations on fuel efficiency. These engineers, working without pay, contact the management of office buildings, laundries, theaters, schools, bakeries, foundries, factories and other users and seek to obtain their cooperation.

When this cooperation is obtained the plant manager appoints a "waste chaser" who accompanies the visiting engineer on an examination of the plant. If confronted by special problems, such as those involved in heat control or special fuel utilization, they may call upon the services of experts as needed. All this is done without cost to the plant.

Hundreds of plant managers already are taking part in the National Fuel Efficiency Program and many of them have effected substantial savings in fuel costs as a result of their participation.

Inquiries as to the operating details of the program should be directed to the National Fuel Efficiency Section, Bureau of Mines, Washington, D. C. Those interested should obtain the list of Quiz Sheets issued and to be issued by the Bureau.

A. S. T. M.--NEW BOOK OF STANDARDS

Heavy demand for the 1942 Book of A. S. T. M. Standards and its Supplements, occasioned by the war production efforts have necessitated advancing by a full year publication of the next book. Normally this would come out in November-December 1945 on the triennial basis, but the book will be issued in December 1944.

Very widely used by American industry and many branches of state and federal governments, this book providing authoritative specifications and tests for a wide range of engineering materials, will cover some 6000 pages in three parts: I, Metals; II, Non-metallic Materials—Constructional (cement, lime, concrete, paint, thermal insulating materials, etc.); III, Non-metallic Materials—General (petroleum, textiles, plastics, coal, rubber, asbestos yarn, tape, cloth, etc.)

When these books are ready for distribution data as to cost, etc., will be published.

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V-DAY IN EUROPE - Its Effect on J-M

Readers will be interested in the statement of Lewis H. Brown, President of Johns-Manville, on the situation the Company will face on V-Day in Europe.

"Johns-Manville plants will not have to be shut down for reconversion", said Mr. Brown, and while the company's volume of business in 1945 is expected to be less than this year, it probably will exceed that of 1940.

"We shall continue to make, by and large, the same products we are now making. Altho many of our orders for war materials may be cancelled, we can go immediately to work on an existing backlog of orders for civilian needs and on the many new orders which will then come thru, especially in the field of building materials and for repair and modernization of industrial plants.

"After victory in Europe but before the defeat of Japan, the war job to be done will still be big. . .The volume of business next year will not be as large as this year but it will be larger than prewar 1940 and therefore there will be more regular peacetime jobs.

"The severe shortage of workers in the company plants will continue at least until after V-day in Europe. As soon as workers become available, as a result of our fighting men returning or civilian workers coming from cut-back industries, we shall return to a normal 40-hour week.

"As a single company, Johns-Manville cannot of course buck a national collapse which can come if there is great disunity among management and labor or other groups on the home front, or if the administration in Washington foments bickering and sniping rather than wholehearted cooperation of all groups. Barring any such national calamity (which I think can be avoided if we have the unselfish courage to work for the good of the whole country rather than for group interests), the prospects for Johns-Manville—and for you and your job—are encouraging.

"If we have a healthy national policy in Washington and the support and cooperation of every member of the J-M organization, we can face the longer term future with reasonable confidence and high hopes."

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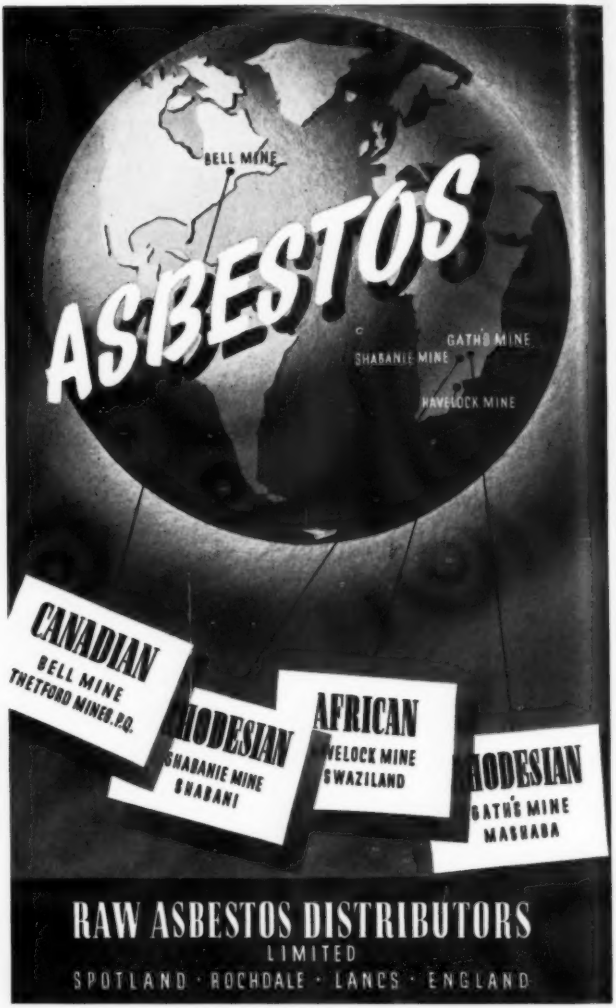
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MAKES ASBESTOS WATER RESISTANT

According to a scientific bulletin just issued by Arthur D. Little, Inc., chemists and research engineers of Cambridge, Mass., the heat resistant qualities of asbestos, and of mica as well, are enhanced and expected to be more fully utilized by the use of silicones, a product of silicon. Asbestos, which is water absorbent, is rendered water resistant by impregnation with silicones.

These are new resins developed by the Dow-Corning Corporation and are based on a framework of silicon and oxygen, the essential constituents of glass. Silicones are highly resistant to high temperature and so may enter new fields of application, especially in their combination with asbestos. Already they promise far-reaching improvements in lightweight electrical apparatus.

Silicones are a new form of plastic resin and are available in several forms, all showing a wide range of properties. They all possess high electrical characteristics and are remarkably inert chemically. Now costly, because of present complex manufacturing processes, improvements in the processing are expected to bring large economies, since the necessary raw materials—sand, hydro-carbons and power—are cheap and abundant.

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According to F. W. Dodge Corporation, the majority of American families expecting to build their own homes to order when restrictions are relaxed on man power, materials and equipment, are budgeting an outlay of $5,500 or more for construction alone, exclusive of land cost.

• • • —

International trade is conducted mostly by business men. They know far better than any other group how it should be operated. Governments can do only so much. Business must carry on from that point.—*Eric A. Johnston, President Chamber of Commerce.*

WANTED

Man to take charge of research, development and quality control work in the manufacture of asbestos textile products. Old established company. Postwar Security. Must furnish W. M. C. certificate of availability. Send full history, photograph and salary desired in first letter. Address Box 8K-A, "ASBESTOS", 17th Fl., Inquirer Bldg., Phila. 30, Pa.

MARKET CONDITIONS

GENERAL BUSINESS

Business is plainly in a waiting stage. Not knowing just when the war in Europe will end (and the end does not at the moment seem to be as near as many people imagined) nor just when reconversion to any large extent will begin, business is marking time, but at the same time trying to plan for postwar activities.[1]

For the automobile and other so-called heavy industries, reconversion will be quite a problem. Says the Business Bulletin of The Cleveland Trust Company (Sept. 15th issue): "The plain fact is that for most industries now engaged in producing munitions the conversion back to civilian production is going to be a good deal more difficult than was the conversion from making peacetime goods to making war goods. It is much simpler to have one wealthy customer who knows exactly what he wants than it is to compete for the patronage of large numbers of customers having widely diversified views of their wants."

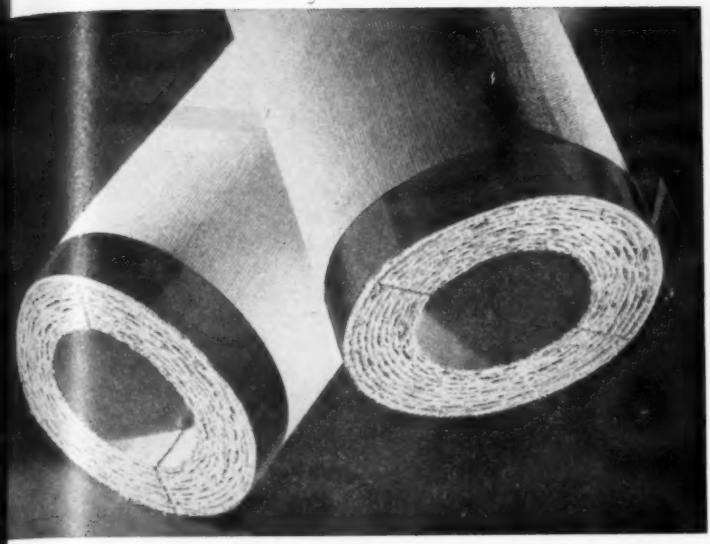
For the building trades and the manufacturers of building materials it will be comparatively easy to turn from war production to peacetime building. This is especially true of building materials, of the Asbestos Industry—insulation, paper, millboard, asbestos-cement products.

ASBESTOS - RAW MATERIAL

No important change in the Raw Asbestos situation since last month. Production is good and demand excellent for all grades. We understand that shipments from South Africa of Rhodesian C&G/1 and C&G/2 have improved. The consumption of amosite in this country is said to be declining and the supply will probably be in good balance next year. Demand and consumption of long chrysotile from Canada is also constant. Shipping space from Canada to the United Kingdom has improved considerably.

Since many pre-war users of short asbestos are reported to be making plans for resumption of production of their old products it is quite likely that demand for most

[1] Read the article on page 18.



Further development now gives V-Dent Insulation a temperature range of 600° instead of 500° as formerly recommended.

NORRISTOWN
MAGNESIA & ASBESTOS COMPANY

NORRISTOWN, PENNSYLVANIA

short grades will increase shortly after the first of the year.

Prices for Canadian fibres are expected to remain the same during the fourth quarter as they have been during the first three quarters of this year.

ASBESTOS - MANUFACTURED GOODS

Asbestos Textiles. Demand for Asbestos Textiles continues very high and the expectations are that this condition will not change even after the European war is over. The continuing requirements of the Navy are making it possible to keep asbestos textile production at a high level comparable with the labor supply that is available to produce the material. The Industry, of course, is watching the situation in regard to curtailment of limitation orders on the part of the War Production Board. It is not anticipated, however, that there will be any general relaxation of the M-283 order in the near future. There may be some slack-off when a cutback occurs in the production of combat vehicles for the U. S. Army.

The demand for conductor insulation and treated fillers is still very strong on the part of the electric cable manufacturers and they are planning on bringing in additional production capacity the latter part of this year which will bring an increased burden on the Asbestos Industry. Quite a bit of new carding equipment has been ordered by the several manufacturers in anticipation of this new program.

Brake Lining. Demand in this market is constant. While deliveries are improving they are not too good. Independent sales are about 8% over last year. It is the opinion of at least one manufacturer that demand will be good for the next two years.

August sales of brake lining increased not only over those for July but also over those for the same month last year and the same is true when the eight month periods for the current year and last are compared. Domestic consumption sales were the highest within the past ten years.

Exports, while increasing over last August, declined slightly from July of this year but the total volume of business transacted during the early months of 1944 brought the total amount for the first eight months of this

year higher than that for last year.

Asbestos Paper. A slight decrease in demand is reported in this market and while there are rumors of a lowering tendency in prices, most of them seem to be unfounded, especially as lowering of prices is not justified by costs.

Asbestos Millboard. In the Millboard market commercial business is slow, but the equipment division is more active because some metal has been released.

Insulation. High Pressure. The trend toward smaller sizes of Pipe Covering in volume is continuing with a definite slow-up in the purchasing of large sizes and combinations of Hy-Temp and Magnesia. The shipbuilding program is accounting for a material part of the total volume and is the contributing factor to the large demand for the smaller sizes of pipe covering. We understand, however, that the Navy has located some rather large stocks of magnesia pipe covering in some of its yards and depots which results in a slackening of demand from that source.

One correspondent sums up the situation in the High Pressure Insulation field by saying that the magnesia insulation industry is well over the hump and it is possible that the demand in the last quarter of this year will be slackened off to a considerable extent. Production is said to be catching up with orders.

Insulation. Low Pressure. Business is off in volume but jobber business is picking up seasonally.

Asbestos-Cement Products. Practically no change in the situation of asbestos-cement products. Demand continues far in excess of the industry's production capacity under present labor conditions and the problem at present is entirely one of production, rather than of sales.

Demand for flat and corrugated sheets continues steady; corrugated appears to be active on West Coast.

As to asbestos-cement pipes, the situation varies thruout the country. The end of the war and resumption of various projects on which pipe is required, will probably show more uniformity and some increase in demand.

The above comments have been sent us by various men in the Industry who are closely in touch with the market situation.

CONTRACTORS AND DISTRIBUTORS PAGE

A FIVE-POINT PROGRAM FOR CONTRACTORS

A five point program of education and preparation for peacetime building activity has been set up by the Gypsum Association of Chicago, Ill. It should be adopted by everyone interested in the manufacture or sale of building materials:

1. Debunk the "dream house" publicity. Make it clear to everyone that houses with everything from the vacuum cleaner to the dishes built-in are not going to come the day the war is over.

2. Impress local officials with the importance of allowing proved new materials and new methods of construction, both of which may make possible better buildings, otherwise postwar homes may be outdated and the building revival checked by shortages of older materials.

3. Emphasize the importance of safety features, fire protection and durability in homes. The desirability of a home will increase with its substantiality and safety.

4. Promote remodeling and modernization of homes and apartment buildings. Altho wonder houses will not be possible, older buildings will have to put on new clothes to compare favorably with the new ones that will go up in quality.

5. Educate farmers to the best methods of construction and the importance of fire protection.

• • • —

"New Horizons for the Construction Industry" was the subject of an address given before the National Association of Home Builders, in Washington, D. C., on September 25th, by Eric A. Johnston, President of the Chamber of Commerce of the United States.

One paragraph is of special interest to our readers: "There is an expression in New England that a tight house is a good house. We have learned thru insulation to build a tight house,—one which in the winter keeps the cold out and the warm in and in the summer the heat out and the cool in. We have learned improved ways to equip a house for efficient and healthful living. We have learned improved ways to design a house so as to make the most of its space, new ways to locate a house so as to make the most of its environment. We have learned improved ways to finance the purchase of a home. And we will go on after the war adding improvement upon improvement."

Copy of the address may be obtained by writing the Chamber of Commerce at Washington, D. C.

SERIES 90 900LB. FLANGES

PIPE SIZE	METAL AREA	1"	1½"	2"	2½"	3"	3½"	4"
½"	.81	1.45	1.97	2.49	3.01	3.53	4.05	4.58
¾"	.89	1.56	2.09	2.63	3.17	3.71	4.25	4.79
1"	1.05	1.78	2.33	2.88	3.44	4.00	4.56	5.12
1¼"	1.19	1.87	2.44	3.01	3.58	4.15	4.72	5.29
1½"	1.47	2.25	2.84	3.43	4.02	4.61	5.21	5.81
2"	2.10	2.78	3.44	4.10	4.77	5.44	6.11	6.78
2½"	2.56	3.29	4.00	4.71	5.42	6.13	6.84	7.56
3"	2.36	3.11	3.78	4.45	5.13	5.81	6.49	7.17
3½"	2.81	3.62	4.36	5.11	5.86	6.61	7.36	8.11
4"	3.19	4.08	4.85	5.62	6.39	7.16	7.93	8.71
5"	4.11	5.21	6.06	6.91	7.76	8.62	9.48	10.34
6"	4.62	5.82	6.71	7.60	8.49	9.39	10.29	11.19
7"	5.27	6.83	7.78	8.74	9.70	10.66	11.62	12.58
8"	6.78	7.99	9.01	10.03	11.05	12.08	13.11	14.14
9"	7.75	8.99	10.03	11.07	12.12	13.17	14.22	15.27
10"	8.66	9.79	10.90	12.01	13.13	14.25	15.37	16.49
12"	10.33	11.57	12.77	13.97	15.17	16.37	17.57	18.77
14"	11.25	12.48	13.72	14.96	16.20	17.44	18.68	19.92
16"	12.89	14.29	15.60	16.91	18.23	19.55	20.87	22.19
18"	15.87	17.45	18.89	20.33	21.77	23.21	24.65	26.10
20"	18.05	19.85	21.38	22.91	24.44	25.97	27.50	29.04
24"	26.95	29.10	30.89	32.69	34.49	36.29	38.09	39.89

The figures given in the seven columns to the right denote sq. ft. areas at thickness in top line from metal. Use metal area for first layer of blocks.

This is the fifth in the series of Area Tables compiled by Elbert R. Sitton.

CANADA.

The Dominion Bureau of Statistics is now releasing regularly monthly figures covering production of Asbestos in Canada, in its monthly report entitled Production of Canada's Leading Minerals. Likewise the Bureau of Mines of the Province of Quebec is allowed to publish monthly production of asbestos production.

Follow the monthly figures for the first seven months of 1944, compared with the same periods in 1943[1]

	1944 (Tons — 2000 lbs.)	1943 (Tons — 2000 lbs.)
January	32,541	31,837
February	36,161	32,510
March	40,275	36,503
April	33,358	33,680
May	35,477	48,867
June	35,328	43,487
July	31,112[2]	43,447[2]
August	36,863[2]	39,768[2]
Total — first eight months	281,115	310,099

[1] Figures given for 1943 differ slightly from those in our May 1944 issue (page 28), the above figures being the revised, up-to-date ones.
[2] These figures supplied by Bureau of Mines, Province of Quebec. Revised figures may be published later.

The Mining, Metallurgical and Chemical Branch of the Dominion Bureau of Statistics, Ottawa, has very kindly provided *monthly figures* of Production of Asbestos in Canada for the years 1940, 1941 and 1942.

In order to bring all records up to date, these monthly figures will be published by us next month.

Yearly figures for the above years and monthly figures for 1943 are given on page 28 of our May 1944 number.

Africa (Union of South)

((From Foreign Commerce Weekly, published by U. S. Dept. of Commerce.)

	Short Tons	Value
Asbestos production in 1941	23,024	£512,919
1942	32,052	£755,046
1943	38,145	£913,759

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Blueprint for Tomorrow's Needs Now!

NEWS OF THE INDUSTRY

BIRTHDAYS

A. K. Burgstresser, President, Norristown Magnesia & Asbestos Co., Norristown, Pa., October 26.

L. R. Hoff, President, Johns-Manville Sales Corp., New York City, October 27.

A. L. Wade, President, Asbestos Insulations, Reg'd., Montreal, P. Q., Canada, October 28.

George L. Abbott, President and General Manager, Garlock Packing Co., Palmyra, N. Y., October 31.

F. E. Byrnes, Asst. to Vice President, The Ruberoid Co., New York City, October 31.

Ernest S. Sprinkman, President, Sprinkman Sons Corp., Milwaukee, Wis., November 3.

William P. Barry, General Manager, Smith & Kanzler, Elizabeth, N. Y., November 5.

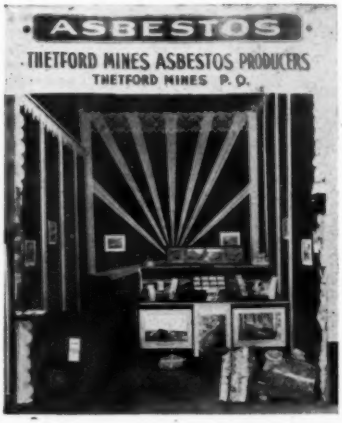
Charles W. Hanslip, Owner, Standco Brake Lining Co., Houston, Texas, November 8.

G. M. Righter, Export Manager, Raybestos-Manhattan, Inc., New York City, November 10.

K. E. Moore, Advertising Manager, The Flintkote Co., New York City, November 13.

To all these gentlemen we extend congratulations and best wishes.

EASTERN TOWNSHIPS EXHIBITION. This interesting exhibit of Crude Asbestos was sponsored by Asbestos Corporation Limited, Bell Asbestos Mines Ltd., and Johnson's Company of Thetford Mines, Canada, at the Eastern Townships Exhibition, held at Sherbrooke, August 26 to September 2, 1944. A sample of Crude and a booklet giving interesting facts about the origin of Asbestos and its various uses were given to all visitors.



DWIGHT L. ARMSTRONG DIES

Dwight L. Armstrong, Vice President of the Armstrong Cork Co. and nationally known business executive and sportsman, died in the Lancaster General Hospital, on September 10, after an illness of four weeks.

Mr. Armstrong was born June 4, 1894 in Pittsburgh, the son of Charles D. Armstrong, former President of the Armstrong Cork Company and grandson of Thomas M. Armstrong, founder of the Company. He was educated at Sterrett School in Pittsburgh, at the Hill School in Pottstown, Pa., and graduated from Yale University with the degree of A. B. in 1917.

Mr. Armstrong entered the employ of the Armstrong Cork Company on February 13, 1919, in its Pittsburgh factory, was transferred to the Sales Department of the Company's Linoleum Division in Lancaster, Pa., early in 1920 and a year later was sent to the Pacific Coast where he organized the Company's sales offices in San Francisco and Seattle. In 1923 he returned to Lancaster as Assistant General Sales Manager of the Linoleum Division and in 1928 was made General Sales Manager. In 1930 he was named Vice President in charge of sales; in 1931 became a member of the Board of Directors, and in 1933, Vice President and General Manager of the Closure Division. In 1939 he was attached to the President's Office as a general executive Vice-President.

Mr. Armstrong had numerous national business affiliations, among which were Director of the Hamilton Watch Company, of the U. S. Bung Mfg. Co., of the Pennsylvania Water & Power Co., and the Pennsylvania Economy League. He was also prominently identified with the social and philanthropic activities of Lancaster City and County.

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Harold D. Bates

PHILIP CAREY MFG. COMPANY. Appointment of Harold D. Bates as Advertising and Sales Promotion Manager of The Philip Carey Manufacturing Company, Cincinnati, has been announced by E. W. Smith, Vice President and General Sales Manager. Mr. Bates was formerly Assistant Advertising Manager in charge of industrial advertising for Johns-Manville.

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NORMAN O. AEBY, J-M General Purchasing Agent, was recently elected a director of the National Association of Purchasing Agents. He recently completed a year's service as president of the Purchasing Agents Association of New York.

• BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

MILLBOARD **YARNS**
ROVINGS **POWDER** **CLOTHS**
PROCESSED FIBRES
Unexcelled for use in
ASBESTOS CEMENT PIPES

• AMOSITE ASBESTOS

This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

Asbestos mattress filler
85% Magnesia Insulation

The CAPE ASBESTOS CO. Limited

Morley House, 28-30 Holborn Viaduct, London, E.C.1.
FACTORY, BARKING, ESSEX

United States Sales Agent:
ARNOLD W. KOEHLER
415 LEXINGTON AVE. **NEW YORK CITY**
TELEPHONE—VANDERBILT 6-1477

S. R. ZIMMERMAN DIES V. P., RAYBESTOS-MANHATTAN

S. R. Zimmerman, Vice President of Raybestos-Manhattan, Inc., passed away on September 18th, after an illness of three months.

Mr. Zimmerman was a distinguished corporation lawyer and represented many of the important corporate interests of Lancaster County and Pennsylvania. He became associated with the Asbestos Industry in October 1910 when he was elected President of the United States Asbestos Company, which Company later (1929) upon the forming of Raybestos-Manhattan, Inc., became a Division of the latter Company.

Mr. Zimmerman was born August 1, 1879 at Mount Pleasant, Westmoreland Co., Pa.; graduated at Mount Pleasant Classical Academy, and attended Franklin and Marshall College, graduating in 1901. He studied law with Hon. William H. Keller, was admitted to the bar on October 10, 1903, became associated with W. U. Hensel of Lancaster, Pa., and in 1925, founded his own firm of Zimmerman, Myers & Kready.

Mr. Zimmerman was a member and elder of the First Evangelical and Reformed Church of Lancaster, Vice President of the Board of Trustees of Franklin and Marshall College and one of the few remaining charter members of the Manufacturers' Association of Lancaster. He was a member of Phi Kappa Fraternity, The Hamilton Club of Lancaster, Lancaster Country Club, Lancaster Lodge of Elks and the University Club of Philadelphia.

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THE FLINTKOTE COMPANY announces the appointment of Thomas S. Clark as district manager of the newly created Washington District of the Building Materials Division. Mr. Clark has been associated with Flintkote during his entire business career. Immediately before his appointment, Mr. Clark was the Flintkote sales representative in the Baltimore area. The new district office is located in Washington, D. C., at 1112 Woodward Building, Washington 5.

Mr. Clark is a native of Williamsport, Pa. He was educated in Penn State College and Columbia University and joined Flintkote immediately after his graduation from Columbia. He says his hobbies are his family (he has two daughters) and Flintkote. He is purported to be a farmer and a golfer, each of dubious quality.

SIMON COLLIER, Manager of the Inspection and Control Department of Johns-Manville at its general headquarters in New York, was recently elected chairman of Committee D-11 on Rubber Products, of the American Society for Testing Materials. He has served as vice-chairman of the committee for the past two years.

CAROLINA ASBESTOS COMPANY

CUSTOM MANUFACTURERS
OF
ASBESTOS TEXTILE PRODUCTS

CAROLINA ASBESTOS TEXTILES

ARE COMPLETELY ENGINEERED FOR MODERN REQUIREMENTS IN THE MANUFACTURE OF SAFETY-CLOTHING, ELECTRICAL HEATER-CORDS, DRYER-FELTS, PLASTICS AND MANY OTHER PRODUCTS REQUIRING THE USE OF ASBESTOS TEXTILES.

ASBESTOS YARN — CORD — CLOTH
ASBESTOS ROVING — TUBING — WICKING
ASBESTOS CARDED FIBRES — LISTING TAPES
OIL BURNER WICKING

CAROLINA ASBESTOS COMPANY

EXECUTIVE OFFICES:
DAVIDSON, N. C.

FACTORIES:
DAVIDSON, N. C.
MARSHVILLE, N. C.

B.L.M.A. ELECTS OFFICERS

The Brake Lining Manufacturers' Association, Inc., at its annual meeting held October 4, 1944, elected the following officers for the year beginning September 1, 1944: President, J. S. Doyle of Johns-Manville Corporation; First Vice President, C. Q. Smith of the American Brakeblok Division; Second Vice President, W. E. Harvey of Thermoid Company; Treasurer, V. A. Spina of the Scandinavia Belting Co., H. G. Duschek, Secretary and Assistant Treasurer.

The Executive Committee consists of J. G. Brown of Grizzly Manufacturing Co., R. B. Davis of Raybestos Division, F. A. Miller of United States Asbestos Division; A. P. Smith of Russell Mfg. Company; and H. C. Berkeley of the Inland Manufacturing Division of General Motors Corporation.

SEABEES FOR THREE DAYS

Recently the Industrial Incentive Division of the Navy invited some 30 Industries in the New York and New Jersey areas to send Labor and Management representatives on a three day tour of inspection of an Advance Base Depot and Naval Construction Training Center.

Three men from Johns-Manville were selected by that company: Eddie Macko of the Manville, N. J., Plant, Bob Simmons, Manager of J-M's Government Department and Don Rowe, Editor of News Pictorial, the popular J-M paper for its employees.

What started out as an inspection tour, however, turned out to be a realistic three days as Seabees. While the experience was a rather tough one according to all accounts, the result was a better understanding of the real and vital part played by J-M products in the war.

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STONOLEUM is the name of a flooring material recently developed by the Continental Asbestos Refining Corporation, 1 Madison Avenue, New York City, 10.

It is claimed to be resilient—"feels like rubber and wears like stone", according to the advertising literature. It is also quick drying—can be laid Saturday and used on Monday, and no skilled labor is required. It contains asbestos fibre.

Ask the manufacturers (above) for further information if interested.

SOUTHWESTERN ASBESTOS CORPORATION, of Globe, Ariz., started operations at its new custom processing plant in August, according to The Mining Journal, and planned to have the plant operating at its rated capacity of 25 tons daily, in September. It is said that the material treated will average about 40% high grade asbestos. The first custom ore handled was from the Wright and Maxwell operation, leased by Floyd Brown, of Globe.

RIC-WIL COMPANY has recently issued a new catalog, No. 44. In addition to comprehensive descriptions of Ric-wiL products, the book contains a great deal of information of value to architects, engineers and heating contractors who are concerned with the problem of insulation and protection of piping—either underground or overhead. Capacity tables, trench dimensions and general specifications are included for Ric-wiL Prefabricated Insulated Pipe Units and for Tile or Cast Iron Conduit systems. Copies of the catalog may be obtained by writing The Ric-wiL Company, 1572 Union Commerce Building, Cleveland, Ohio.

PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D. C.

Copies of patents can be obtained by sending 10c (in coin) to The Commissioner of Patents, Washington, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Sound Absorbing Materials. No. 2,355,454. Granted on August 8, 1944, to William I. Lucius, Bronxville, N. J., assignor to Johns-Manville Corporation, New York City. Application April 13, 1943. Serial No. 482,878.

A method of improving the sound absorbing characteristics of a fibred sheet material comprising forming at spaced points in the sheet a multiplicity of elongated openings extending inwardly from a face thereof by penetrating said end at each of said points with a plurality of punches of successively increasing diameters.

Manufacture of Magnesium Products No. 2,356,395. Granted on August 22, 1944, to Gunier H. Gloss, Belmont, and Robert E. Clarke, Palo Alto, Calif., assignors to Marine Magnesium Products Corporation, San Francisco. Application June 7, 1941. Serial No. 397,072.

Precipitating a fast setting magnesium hydroxide from sea water by contacting the sea water with a precipitating material comprising calcium oxide concentrated with a fluoxide, recovering a precipitate including the magnesium hydroxide and residual fluoride of the precipitated material, carbonating said precipitate to form magnesium bi-carbonate from the fluoride.

Composite Brake Lining. No. 2,355,419. Granted on August 8, 1944 to Donald S. Bruce, Somerville, N. J., assignor to Johns-Manville, New York City. Application November 4, 1942. Serial No. 464,459.

A composite friction facing for a pivoted arcuate brake shoe, comprising a plurality of radially spaced segments of heat and pressure hardened fibro-cementitious friction sheets of differential wearing properties, the segments of low wear resistance being assembled as facings for the heel and toe portions

of the shoe and the segments of high wear resistance forming the facing of the central portion of the shoe.

Reinforced Gasket. No.2,357,257. Granted on August 29, 1944, to Frederick W. Goetz, Franklin Park, N. J., Margie C. Goetz, Executrix of said F. W. Goetz Estate, assignor to Goetz Gasket & Packing Co., New Brunswick, N. J. Application December 28, 1942. Serial No. 470,331. Description upon request.

Molded Compositions for Brake Linings. No. 2,357,409. Granted on September 5, 1944, to Joseph N. Kuzmick, Clifton, N. J. Assignor to Raybestos-Manhattan, Inc., Passaic, N. J. Application May 23, 1941.

A molded composition of friction material comprising asbestos fibres bonded with a heat hardenable phenol-aldehyde synthetic resin, and a reaction product of shellac acids and a compound of a metal in which the metal is taken from the class consisting of calcium, magnesium, zinc, barium and lead.

PUBLICATIONS AVAILABLE

The Asbestos Factbook (2nd Edition)—Much information about asbestos, in compact form—10c per copy.

Canadian Chrysotile Asbestos Classification (reprint)—25c per copy, or 15c ea. in quantities of 10 or more.

Twelve Estimating Tables with Chart. Convenient in figuring flange fittings and other areas—$1.00 per set.

Manual of Unit Prices (for figuring pipe covering and blocks)—30c per copy postpaid.

Processing Asbestos Fibres (Reprint)—of interest to textile plant superintendents or foremen—25c per copy.

Tests for Cotton Content (Reprint from May 1944 "ASBESTOS".) 10c per copy.

Chart—Dollars Cost of Uninsulated Pipe. Reprinted from Page 27, February 1944 "ASBESTOS". 20c each

Asbestos: The Magic Mineral, by Lilian Holmes Strack. Especially interesting to school children—$1.00 per copy.

Order any of the above from "ASBESTOS", 17th Fl., Inquirer Bldg., Philadelphia, 30, Pa.

. . . —

The distributive trades are a most important factor in the welfare of the community.

WANTED

First-class man for sales and engineering work in Contract Department California Insulation House. Prefer engineering graduate, age 35-45, with at least six years' experience. Salary open. Position vacant. Reply by letter stating experience and salary expected and availability. Also be prepared to give references. Box 10W-S, "ASBESTOS", 17th Fl., Inquirer Bldg., Phila., 30, Pa.

THIS and THAT

An International Business Conference will be held November 10th to November 18th, under the auspices of the American Section of the International Chamber of Commerce, the Chamber of Commerce of the United States, the National Association of Manufacturers and the National Foreign Trade Council, Inc., at the Westchester Country Club, Rye, N. Y.

Representative groups of outstanding business personalities from the United States and neutral nations will attend. Forty nations have been invited to send representatives and twenty-eight of them have already accepted. Each is sending a maximum of six delegates and six technical advisers to the meetings.

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A catalog illustrating the combined resources of H. K. Porter Co., Inc., of Pittsburgh, and its divisions, J. P. Divine Mfg. Co. and Quimby Pump Co. has just been issued. It is entitled "Porter, Devine, Quimby—The Complete Line of Better Built Equipment for the Process Industries" and is available by writing to Porter's main offices at Oliver Building, Pittsburgh, 22, Pa.

. . . —

Owen D. Young and Gerard Swope resigned September 8 as chairman of the board and president respectively of the General Electric Company, and Charles E. Wilson was re-elected by the board of directors meeting in New York. No announcement of a successor to Mr. Young as chairman was made.

TEST

. . . the added sales volume awaiting you among the nation's roofing and siding contractors. Write to . . .

AMERICAN ROOFER and SIDING CONTRACTOR
425 Fourth Avenue, New York City

CURRENT RANGE OF PRICE

As of October 10, 1944

Canadian—	Per Ton (2000 lbs.) f.o.b. Mine (In U. S. Funds)		
Group No. 1 (Crude No. 1)	$650.00	to	$750.00
Group No. 2 (Crude No. 2; Crude Run-of-Mine and Sundry)	165.00	to	385.00
Group No. 3 (Spinning or Textile Fibre)	124.00	to	233.50
Group No. 4 (Shingle Fibre)	62.50	to	82.50
Group No. 5 (Paper Fibre)	44.00	to	49.50
Group No. 6 (Waste, Stucco or Plaster)	33.00	to	34.00
Group No. 7 (Refuse or Shorts)	14.50	to	29.50

Vermont—	Per Ton (2000 lbs.) f.o.b. Hyde Park, Vt.		
Shingle Stock Fibres	$62.50	to	$65.50
Paper Stock Fibres	44.00	to	54.00
Waste			33.00
Shorts	14.50	to	28.50
Floats			19.50

Note: Crude Run-of-Mine (Canadian) refers to a crude asbestos produced in certain mines where Crude Fibre is not graded into regular No. 1 and 2 Crude. Crude Sundry refers to certain odd lots of off grade material which do not conform to the regular standards of No. 1 Crude or No. 2 Crude.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial and Financial Chronicle. No guarantee made as to their correctness).

		September 1944		
	Par	Low	High	Last
Armstrong Cork Co. (Com.)	np	42¼	44⅞	44¾
Asbestos Corp. (Com.)	np	21	22¼	21
Celotex (Com.)	np	13¼	14½	14½
Celotex (Pfd.)	20	18	18¾	18¾
Certainteed (Com.)	1	6¼	7¼	7
Certainteed (Pfd.)	100	103	115½	115½
Flintkote (Com.)	np	22⅛	24	23⅜
Flintkote (Pfd.)	np	107½	110½	109½
Johns-Manville (Com.)	np	94¾	98⅞	98
Raybestos-Manhattan (Com.)	np	30⅛	31¾	31¼
Ruberoid (Com.)	np	31½	34	34
Thermoid (Com.)	1	8	9	8¾
Thermoid (Pfd.)	10	46½	49¼	48
U. S. Gypsum (Com.)	20	76	79½	79¼
U. S. Gypsum (Pfd.)	100	175⅛	180	179⅞
U. S. Rubber (Com.)	10	47½	51¾	50½
U. S. Rubber (Pfd.)	100	138⅞	142	140¾

ASBESTOS TEXTILES

THE NECESSARY ELEMENT

ASBESTOS ATTAINS ITS USEFULNESS ONLY WHEN IT IS PROCESSED, AND OFTENTIMES COMBINED WITH OTHER ELEMENTS WHICH GO INTO THE MAKING OF "ASBESTOS PRODUCTS." DURING THE WAR YEARS, **RAYBESTOS-MANHATTAN, INC.,** HAS SUPPLIED ASBESTOS PRODUCTS OF VARIED AND ESSENTIAL USEFULNESS TO THE WAR EFFORT. AT THE SAME TIME, THE RESEARCH AND ENGINEERING TALENT OF THIS ORGANIZATION HAS WORKED STEADILY TOWARD ENLARGING AND IMPROVING THE RANGE OF INDUSTRIAL APPLICATION FOR ASBESTOS — LOOKING AHEAD TO THE PART SUCH PRODUCTS WILL PLAY IN THE POSTWAR WORLD.

RAYBESTOS-MANHATTAN, INC.
INDUSTRIAL SALES DIVISION
FACTORIES
BRIDGEPORT, CONN. NO. CHARLESTON, S. C.
MANHEIM, PA. PASSAIC, N. J.

SOUTHERN ASBESTOS COMPANY

Asbestos Textile Products since 1919

A Complete Line of Products

The facilities of our sales and research organization are at the disposal of any manufacturer who has a problem to solve which involves the use of fabricated asbestos.

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